

REMARKS

The Applicant has carefully considered this application in connection with the Examiner's Action and respectfully request reconsideration of this application in view of the following remarks.

The Applicant originally submitted Claims 1-20 in the application, and in a prior response, elected to prosecute Claims 1-11. Accordingly, Claims 1-11 are currently pending in the application.

I. Rejection of Claim 1 under 35 U.S.C. §102

The Examiner has rejected Claim 1 under 35 U.S.C. §102(e) as being anticipated by U.S. Patent No. 6,777,529 to Ong *et al.* ("Ong"). In a telephone conversation with the Examiner on September 13, 2005 the Examiner confirmed that the reference to Zhang *et al.*, on Page 2 of the Examiner's Detailed Action, was a typographical error.

Claim 1, among other things, recites that said channel comprises a densified layer of organic molecules.

In the Office Action, the Examiner's citation to Col. 13, Line 55 to Col. 19, Line 67 and Fig. 1 of Ong does not teach or suggest a densified layer of organic molecules, as recited by claim 1. The Examiner acknowledges that Ong does not specifically state that the channel comprises a densified layer of organic molecules (Examiner's Detailed Action Page 2 Lines 20-21). The Examiner, however, then assumes that because Ong uses polythiophene, an organic compound disclosed in the instant application, that such a material must clearly result in a densified layer of organic molecules. The Applicant submits that cited portions of Ong do not support such an assumption. For instance, Fig. 1 simply shows a generic polythiophene semiconductor layer on a substrate 16, and the cited text of Ong cited by the Examiner does not appear to discuss the density

of this generic polythiophene semiconductor layer, or describe how the density organic molecules on a substrate surface could be increased.

Therefore, as applied by the Examiner, Ong does not disclose each and every element of the claimed invention and as such, is not anticipating reference of Claim 1. For these reasons, the Applicant traverses the Examiner's rejection of Claim 1 under 35 U.S.C. §102(e), and respectfully requests the Examiner withdraw the rejection.

II. Rejection of Claims 2-11 under 35 U.S.C. §103

The Examiner has rejected Claims 2-5 and 8-11 under 35 U.S.C. §103(a) as being unpatentable over Ong. The Examiner has also rejected Claims 6-7 under 35 U.S.C. §103(a) as being unpatentable over Ong in view of U.S. Patent No. 6,713,389 to Speakman ("Speakman").

The Applicant respectfully disagrees, because as discussed in section I above, the cited sections of Ong do not teach or suggest a densified layer of organic molecules as recited by Claim 1. The Examiner has not cited Speckman in the rejection of Claim 1 and does not use this reference to support a teaching or suggestion of a densified layer of organic molecules.

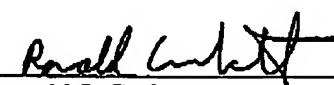
The Applicant therefore respectfully maintains that because Ong fails to establish a *prima facie* case of obviousness of Claim 1, this reference also cannot establish a *prima facie* case of obviousness of dependent Claims 2-11, which include all the elements of the independent claim.

III. Conclusion

In view of the foregoing remarks, the Applicant see all of the Claims currently pending in this application to be in condition for allowance and therefore earnestly solicit a timely Notice of Allowance for Claims 1-11.

The Applicant requests the Examiner to telephone the undersigned attorney of record at (972) 480-8800 if such would further or expedite the prosecution of the present application.

Respectfully submitted,
Hitt Gaines, P.C.


Ronald J. Corbett
Registration No. 47,500

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Hitt Gaines, P.C.
P.O. Box 832570
Richardson, Texas 75083-2570